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Representative photograph, actual product appearance may vary.

SS94A2

SS94 Series Noise Shielded Ratiometric Linear Sensors, VDC supply voltage

Due to regional agency approval requirements, some products may not be available in your area. Please contact your regional Honeywell office regarding your product of choice.

FEATURES

- Single current sinking or current sourcing linear output
- Improved temperature stability
- Standard mounting centers
- Laser trimmed thin film and thick film resistors minimize sensitivity variations and compensate for temperature variations

OPERATION

The SS9 utilizes a Hall effect integrated circuit chip which provides increased temperature stability and performance. Laser trimmed thick film resistors on theceramic substrate and thin film resistors on the integrated circuit reduce null and gain shifts over temperature which results in consistent sensitivity from one deviceto the next.

APPLICATION CONSIDERATION: The output is clamped at the high end. Clamping voltage may be as low as 9 VDC. The output will not exceed the clamping voltage regardless of field strength or power supply.

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Product Specifications	
Product Type	Hall Effect Linear Position Sensor
Package Style	Ceramic
Supply Voltage	6.6 Vdc to 12.6 Vdc
Supply Current max., (mA) @ 25 °C	30
Output Type	Sink/Source
Output Current max., (mA)	1
Magnetic Actuation Type	Ratiometric
Sensitivity @ 25 °C	5.0 mV ± .1 mV/gauss
Operating Temperature Range	-40 °C to 125 °C [-40 °F to 257 °F]
Linearity (% of Span)	-0.8 % typical/-1.5 % max.
Temperature Error (@ 25 °C) Null Shift (% / °C)	-0.02 % min., +0.02 % max.
Temperature Error (@ 25 °C) Sensitivity (% / °C)	-0.02 % min., +0.02 % max.
Magnetic Range min.	-500 to +500
Response Time (µs)	3 Typical
Vout (0 gauss @ 25 °C)	4.00 ± .04V
Availability	Global
Series Name	SS94 Series

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